

Attorney's Docket No.: 10559-225001
Assignee: Intel Corporation

In the Claims:

Please amend the claims as follows:

Sub C1
Claim 1. (Currently Amended) A method comprising:
~~verifying~~ receiving a request to verify a use of a digital
credential by a user of a digital credential, the digital
credential being a digital security mechanism associated with a
user's identity, the use occurring at any a first of a plurality
of different ~~locations~~ services where the digital credential can
be used;

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verifying the use of the digital credential in response to
receipt of the request to verify;

sending a result of the verification to the first service;
storing ~~a~~ the result of the verification in an activity log
in a central ~~location~~ service that communicates with each of
said plurality of different ~~locations~~ services; and
allowing specified users to access said result.

Claim 2. (Original) The method of claim 1 further
including storing transaction information in the activity log.

Claim 3. (Original) The method of claim 2, wherein the
transaction information includes at least one of a message that
was signed using a digital signature key of the digital
credential, a value of a transaction, an online service, an

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internet protocol (IP) address, a date of the transaction and a time of the transaction.

Claim 4. (Original) The method of claim 1 further including generating an activity report from the activity log, wherein the activity report lists the stored verification results.

Claim 5. (Original) The method of claim 4 further including associating a name to a digital signature key of the digital credential, wherein the activity report lists the name of the digital signature key.

Claim 6. (Original) The method of claim 4, wherein generating the activity report includes generating the activity report upon request by an owner of the digital credential.

Claim 7. (Original) The method of claim 4, wherein generating the activity report includes generating the activity report each time the digital credential is verified.

Claim 8. (Original) The method of claim 4, wherein generating the activity report includes generating a report periodically.

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Claim 9. (Original) The method of claim 1 further including analyzing the activity log to detect misuse of the digital credential.

Claim 10. (Original) The method of claim 6, wherein generating the activity report includes listing activity for a plurality of digital signature keys associated with the owner.

Claim 11. (Original) The method of claim 1 further comprising:

authorizing one or more delegates to use a delegated digital credential to act on behalf of the owner of the digital credential for specified functions, wherein verifying the use of the digital credential includes determining whether the delegated digital credential was authorized for the specific use.

Claim 12. (Currently Amended) The method of claim 4, wherein generating an activity report includes generating activity reports of the delegates of the user and wherein said allowing comprises allowing said user to view all reports, but allowing each said delegate to view only their own activity report, and not allowing each said delegate to view reports for other delegates.

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Claim 13. (Currently Amended) An article comprising a computer-readable medium having computer-executable instructions stored thereon for causing a computer to:

~~verifying~~ receive a request to verify a use of a digital credential by a user of a digital credential at any of a plurality of different ~~locations~~ services where the digital credential can be used, the digital credential being a digital security mechanism associated with a user's identity; and

verify the use of the digital credential in response to receipt of the request to verify from a first service of the plurality of different services;

send a result of the verification to the first service;

storing store a result of the verification in an activity log in a central ~~location~~ service that communicates with each of said plurality of different ~~locations~~ services; and

allowing allow specified users to access said result.

Claim 14. (Original) The article of claim 13, wherein the computer-executable instructions cause the computer to store transaction information in activity log.

Claim 15. (Original) The article of claim 14, wherein the transaction information includes at least one of a message that was signed using a digital signature key of the digital credential, a transaction value, an online service processing

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the transaction, an internet protocol (IP) address of a computing device originating the transaction, the date of the transaction and the time of the transaction.

Claim 16. (Original) The article of claim 13, wherein the computer-executable instructions cause the computer to generate an activity report from the activity log, wherein the activity report lists the stored verification results.

Claim 17. (Currently Amended) The article of claim 16 ~~and further including, wherein the computer-executable instructions~~ cause the computer to associating associate a name to a digital signature key of the digital credential, wherein the activity report lists the name of the digital signature key.

Claim 18. (Previously Presented) The article of claim 16, wherein the computer-executable instructions cause the computer to generate the activity report upon receiving a request by an owner of the digital credential and wherein said allowing comprises allowing said user to view all reports, but allowing each said delegate to view only their own activity report, and not allowing each said delegate to view reports for other delegates.

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Claim 19. (Original) The article of claim 13, wherein the computer-executable instructions cause the computer to analyze the activity log to detect misuse of the digital credential.

Claim 20. (Original) The article of claim 17, wherein the computer-executable instructions cause the computer to list in the activity report activity for a plurality of digital signature keys associated with the owner according to the name of the digital signature key.

Claim 21. (Original) The article of claim 20, wherein the computer-executable instructions cause the computer to authorize one or more delegates to use a delegated digital credential to act on behalf of the owner of the digital credential for specified functions and determine whether the delegated digital credential was authorized for the specific use.

Claim 22. (Original) The article of claim 21, wherein the computer-executable instructions cause the computer to generate activity reports of the delegates.

Claim 23. (Currently Amended) A system comprising:
a server to receive requests to verify digital credentials by a user of a digital credential at any of a plurality of different ~~locations~~ services where the digital credential can be used, to verify the use of the digital credential in response to

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receipt of requests, and to send results from the verifications
to the services;

an activity log coupled to the server to store the results
from the ~~verification~~ verifications in a central ~~location~~
service that communicates with each of said plurality of
different ~~locations~~ services; and

a communication part, allowing specified users to access
said results.

Claim 24. (Original) The system of claim 23, wherein the
activity log is configured to store transaction information for
each authentication result.

Claim 25. (Original) The system of claim 24, wherein the
transaction information includes at least one of a digitally
signed message, a date of the transaction, a value of the
transaction, an online service requesting the authentication, an
internet protocol (IP) address, a value of the transaction, and
a time of the transaction.

Claim 26. (Previously Presented) The system of claim 23,
and further comprising an owner database to store information of
an owner of the digital credential and owner-approved delegates
and wherein said communication element allows said owner to view

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all reports, but allows each said delegate to view only their own report, and not reports for other delegates.

Claim 27. (Currently Amended) An article comprising a computer-readable medium having data structures stored thereon comprising:

a first data field to store a result from an verification of a digital credential by a user of a digital credential at any of a plurality of different ~~locations~~ services where the digital credential can be used; and

a plurality of data fields to store transaction information relating to each verification result in a central ~~location~~ service that communicates with each of said plurality of different ~~locations~~ services; and

a data access structure, allowing specified users to access said results.

Claim 28. (Original) The article of claim 27, wherein the plurality of data fields store at least one of a digitally signed message, a date of the transaction, a time of the transaction, a value of the transaction, an online service, an internet protocol (IP) address of a computing device originating the transaction, and goods or services involved in the transaction.

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Claim 29. (Original) The article of claim 27, wherein the data structures further include a plurality of data fields to store owner and delegate information.

Claim 30. (Currently Amended) A method comprising:

receiving use information describing a first use of a digital credential by an owner of a digital credential, at any of a plurality of different services where the digital credential can be used, the digital credential being a digital security mechanism associated with a user's identity;

receiving use information describing a second use of the digital credential by a delegate of the owner of the digital credential, at any of the plurality of different services where the digital credential can be used;

storing the use information in an activity log; and
generating an activity report for the delegate based on the activity log; and

generating an activity report for the owner based on the activity log;

~~wherein said communication element allows~~ allowing said owner to view all reports, ~~but;~~ and

~~allows each~~ allowing said delegate to view only ~~their own~~ the activity report for the delegate, and not the activity report for the owner or activity reports for other delegates.

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Claim 31. (Original) The method of claim 30, wherein the use information includes transaction information.

Claim 32. (Original) The method of claim 30, wherein the use information includes verification information for the digital credential.

Claim 33. (Original) The method of claim 31, wherein the transaction information includes at least one of a message that was signed, a transaction value, an online service, an internet protocol (IP) address, a value of the transaction, a date of the transaction and a the time of the transaction.

Claim 34. (Original) The method of claim 30, wherein the digital credential includes a digital signature key, and further wherein generating the activity report includes associating a name to the digital signature key and listing the name of the digital signature key.

Claim 35. (Currently Amended) The method of claim 30, wherein generating the activity report for the owner includes generating the activity report upon request by an owner of the digital credential.

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Claim 36. (Original) The method of claim 30, wherein generating the activity report includes generating the activity report each time the digital credential is verified.

Claim 37. (Original) The method of claim 30, wherein generating the activity report includes generating a report periodically.

Claim 38. (Original) The method of claim 30 further including analyzing the activity log to detect misuse of the digital credential.

Claim 39. (Currently Amended) The method of claim 35, wherein generating the activity report includes listing activity for a plurality of digital signature keys associated with the owner ~~and wherein said allowing comprises allowing said user to view all reports, but allowing each said delegate to view only their own activity report, and not allowing each said delegate to view reports for other delegates.~~

Claim 40. (Currently Amended) The method of claim 30 further comprising:

authorizing one or more delegates to use a delegated digital credential to act on behalf of the owner of the digital credential for specified functions, wherein verifying the use of the digital credential includes determining whether the

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delegated digital credential was authorized for the specific use
~~and wherein said allowing comprises allowing said user to view
all reports, but allowing each said delegate to view only their
own activity report, and not allowing each said delegate to view
reports for other delegates.~~

Claim 41. (Currently Amended) The method of claim 30,
wherein generating an the activity report for the owner includes
generating activity reports of the delegates of the user owner.

Claim 42. (Currently Amended) A method comprising:
storing use information for a digital credential of a
plurality of delegates who are delegated to use said digital
credential by an owner, the digital credential being a digital
security mechanism associated with a user's identity;

processing the use information for each of said plurality
of delegates to detect misuse; and

generating an alert to the owner when based on the
detection of misuse is detected.

Claim 43. (Original) The method of claim 42, wherein
generating an alert includes generating an activity report based
on the use information.

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Claim 44. (Original) The method of claim 42, wherein generating an alert includes alerting a credential service provider.

Claim 45. (Currently Amended) The method of claim 42, wherein the use information includes transaction information and wherein ~~said allowing the method further~~ comprises allowing said ~~user~~ owner to view all reports, but allowing each said delegate to view only their own activity report, and not allowing each said delegate to view reports for other delegates.

Claim 46. (Original) The method of claim 42, wherein the use information includes verification information for the digital credential.

Claim 47. (Original) The method of claim 45, wherein the transaction information includes at least one of a message that was signed, a transaction value, an online service, an internet protocol (IP) address, a value of the transaction, a date of the transaction and a the time of the transaction.

Claim 48. (Currently Amended) A method comprising:
receiving transaction requests from a plurality of delegate users who are delegated from an owner, wherein the transaction requests include digital credentials for the delegate users, the digital credentials being digital security mechanisms associated

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with users' identities;

processing the transaction requests; and
communicating transaction information to a central service,
wherein the transaction information includes the digital
credentials of the delegate, the transaction information
communicated to create, for the plurality of delegate users,
activity reports at the central service that ~~and wherein said~~
~~allowing comprises allowing said user owner is allowed to view~~
~~all reports, but allowing each said~~ while each delegate is
allowed to view only their own activity report, and not allowing
~~each said delegate~~ allowed to view reports for other delegates.

Claim 49. (Original) The method of claim 48, wherein
processing the transaction requests includes communicating the
digital credentials to the central service for verification.

Claim 50. (Original) The method of claim 48, wherein
processing the requested transaction includes:

verifying the digital credential; and
communicating a result of the verification to the
credential service.

Claim 51. (Original) The method of claim 48 further
including receiving a activity report from the central service,

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wherein the activity report lists the transaction information for each digital credential.

Claim 52. (Original) The method of claim 48, wherein the transaction information includes at least one of a message that was signed, a transaction value, an online service, an internet protocol (IP) address, a value of the transaction, a date of the transaction and a the time of the transaction.

Claim 53. (Currently Amended) A method comprising:

receiving a request from a medical professional to access medical information at a remote ~~location~~ service, wherein the request includes a digital credential for the medical professional, the digital credential being a digital security mechanism associated with the medical professional's identity;

communicating transaction information describing the access request and the digital credential to a credential verification service;

receiving a verification result from the credential verification service;

providing the medical professional access to the medical information based on the verification result; and

receiving an activity report from the credential verification service, wherein the activity report ~~list~~ lists the

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transaction information, the digital credential and the transaction result.

Claim 54. (Original) The method of claim 53, wherein the transaction information includes at least an access type, a date of the transaction and a time of the transaction.

Claim 55. (Original) The method of claim 53, further wherein the digital credential was provided by a credential issuing service and a credential service provider.

Claim 56. (Original) The method of claim 53, and further including:

receiving a request to access the activity report from an owner of the digital credential; and

providing the owner access to the activity report.